ProTech Professional Technical Services, Inc.

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Deploy and Manage Citrix SD-WAN - Essentials (CNS-230-1)

Course Summary

Description

Learn the various SD-WAN implementations and deployment modes available, and how to choose the one that is right for your organization. Take a tour of the underlying architecture of SD- WAN and learn how to differentiate between the various components. Understand how the different elements of SD-WAN come together to provide a better network experience. Topics include: Quality of Service, Classes of Service, Rules, Dynamic Routing, DHCP Services, Zero Touch Deployment, and the SD-WAN management tools available. Hands-on labs are provided.

This course is currently on Citrix SD-WAN version 10.x

Objectives

After taking this course, students will be able to:
- Deployment options available
- Initial configuration and management of Citrix SD-WAN
- Provisioning and management considerations
- SD-WAN security considerations
- SD-WAN optimizations available

Topics

- Citrix SD-WAN Introduction and Overview
- Citrix SD-WAN Deployment Modes and Configuration
- Citrix SD-WAN Provisioning and Change Management

- Citrix SD-WAN Security Considerations
- Citrix SD-WAN Quality of Service
- Citrix SD-WAN Optimizations

Audience

This course was built for IT Professionals working with Citrix SD-WAN, with little or no previous SD-WAN experience. Potential students include administrators, engineers, and architects interested in learning how to deploy or manage Citrix SD-WAN.

Prerequisites

Before taking this course, you should have the following:
- Understanding of different computer networks such as LAN and WAN
- Familiarity with data-carrying techniques, including Multiprotocol Label Switching (MPLS), Metro Ethernet, and VPN tunneling
- Understanding of techniques for increasing data transfer efficiencies / WAN optimization
- General understanding of branch network technologies; Routing, Firewall, DHCP, Internet control, Quality of Service

Duration

Three days

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Course Outline

I.   Citrix SD-WAN Introduction and Overview
    A.   Citrix SD-WAN Functionality
    B.   Platforms & Editions
    C.   Initial Configuration

II.   Citrix SD-WAN Deployment Modes and Configuration
    A.   Deployment Mode Options
    B.   Multi-Region Deployment
    C.   Interface Groups
    D.   Virtual IP Addresses
    E.   WAN Links
    F.   Change Management
    G.   Upgrading Deployments
    H.   Zero Touch Deployment Options

III.   Citrix SD-WAN Provisioning and Change Management
    A.   Appliance Architecture
    B.   SD-WAN Management Architecture Options
    C.   Packet Processing and Architecture
    D.   SD-WAN Services

IV.   Citrix SD-WAN Security Considerations
    A.   Citrix SD-WAN Physical Security
    B.   Appliance Security Considerations
    C.   Network Security
    D.   Stateful Firewall Considerations
    E.   Firewall Rules and Zones
    F.   Security Administration and Management

V.   Citrix SD-WAN Quality of Service
    A.   Citrix SD-WAN Quality of Service
    B.   Classes of Service and Rules
    C.   Application Quality of Service
    D.   SD-WAN Transmit Modes
    E.   Bandwidth Provisioning
    F.   Deep Packet Inspection

VI.   Citrix SD-WAN Optimizations
    A.   Dynamic Routing
    B.   IPsec Termination
    C.   MPLS Queues
    D.   Path State Sensitivity Control
    E.   Virtual Router Redundancy Protocol Support